



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/802,455

03/17/2004

Manfred Heisler

WAS 0627 PUS

4002

22045

7590

06/09/2006

BROOKS KUSHMAN P.C.  
1000 TOWN CENTER  
TWENTY-SECOND FLOOR  
SOUTHFIELD, MI 48075

EXAMINER

SORKIN, DAVID L

ART UNIT

PAPER NUMBER

1723

DATE MAILED: 06/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/802,455

Applicant(s)

HEISLER ET AL.

Examiner

David L. Sorkin

Art Unit

1723

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3 & 8/2004.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mathur et al. (US 2003/0229175) in view of Schuster et al. (US 5,854,343). Mathur ('343) discloses a process for preparing organopolysiloxane compositions (see [0016]-[0016]) having a viscosity measured at 25 degrees C of at least 500 Pa's (see [0015]), comprising mixing and kneading organopolysiloxanes and fillers (see [0023]) in first process stage in a kneading cascade having at least two kneading chamber which are arranged in series (see [0023]), each containing two kneading tools having parallel axes and capable of being driven in co-rotating directions (see [0023]) at least the first kneading chamber having a feed opening and the last chamber having a discharge opening, to provide a raw organopolysiloxane mixture, and, in a second stage process stage, kneading and degassing the raw mixture in a reciprocating kneader (114). The first stage kneading is not exactly as claimed in that the material is not expressly disclosed to pass "transverse" to the axis of the kneading tools. Schuster ('343) discloses a kneading cascade having at least two kneading chambers (2) which are arranged in series adjacent one another, each containing two kneading tools (3) having parallel axes and are capable of being driven in co-rotating or counter rotating

Art Unit: 1723

directions, said chambers being connected to one another by means of openings (5) through which material passes in a direction transverse to the axes (4) of the kneading tools, at least the first kneading chambers having a feed opening (6) and the last chamber having a discharge opening (7), to provide an organopolysiloxane mixture (see drawing and abstract). It would have been obvious to one of ordinary skill in the art to have substituted the kneading cascade of Schuster ('343) for the first stage of Mathur ('175), because Schuster ('343) explains in col. 5, lines 32-37 that the kneading machine provide the benefit of controlling intensity and residence time. Regarding claim 2, the kneading cascade taught by Schuster ('343) comprises from 3 to 10 chambers (see drawing). Regarding claims 3 and 4, the kneading tools taught by Schuster ('343) comprise kneading blades, rollers or polygonal plates (see col. 5, lines 66-67). Regarding claim 5-7, temperature of the reciprocating kneader is regulated (see [0036]). Regarding claim 8, the filler content is from 5 to 80% (see [0026]). Regarding claim 9, silicas having specific surface area determined by BET method of at least 50 m<sup>2</sup>/g are used as fillers (see [0026]). Regarding claims 10 and 11, polydimethylsiloxanes in accordance with these claims are disclosed or suggested in [0016]-[0018] of Mathur ('175). Regarding claim 12, Schuster ('343) teaches adding organopolysiloxanes having a viscosity measured at 25 degrees C from 10 to 200 mPa·s (see col. 6, lines 54-67).


### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 571-272-1148. The examiner can normally be reached on 9:00 -5:30 Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
David L. Sorkin  
Primary Examiner  
Art Unit 1723

DLS